

AVRO AIRCRAFT LIMITED

52193

SECRET

Inter-Departmental Memorandum

SI905-57/16
AT

Ref 8367/22/J
Date April 22, 1958
To S. E. Harper
From T. Roberts
Subject ARROW 1 - FIRST FLIGHT R.F.T.

Herewith Addendum 9, of R.F.T. 07-5024, giving the test requirements for the ninth flight of the initial series of flights.



T. Roberts
Technical Flight
Test Co-ordinator

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Central Files



AVRO AIRCRAFT LIMITED

SECRET

MALTON, ONTARIO

R.F.T. NO. 07-5024 Add. 9

SHEET NO. 1 OF

DATE: April 22, 1958

REQUISITION FOR FLIGHT TEST

AIRCRAFT 25201

ASSIGNMENT NO.

WORK ORDER NO.

This addendum covers the specific test required on the ninth flight of the initial series of flights, or definitely prior to aircraft being grounded.

1. INSTRUMENTATION

As for flight No. 6.

2. PURPOSE OF TEST

To establish a stabilized max level speed at 48,000 ft. with the existing 39" cylindrical ejector.

3. TEST PROCEDURE

3.1 Climb at 350 kts. IAS to 30,000 ft. with afterburner.

3.2 Accelerate at 30,000 ft. to 450 kts. IAS.

3.3 Climb at 450 kts. IAS to 48,000 ft.

3.4 At 48,000 ft. level out and accelerate to max. level speed or $M = 1.7$. If $M = 1.7$ is reached before max level speed is attained climb at $M = 1.7$ constant up to a maximum of 55,000 ft.

3.5 Reduce speed to $M = 0.9$ and descend to approx. 25,000 ft, continue to descend to circuit height at 350 kts. IAS.

5. DATA ON PILOT'S VOICE

The following data is required on Pilot's voice in addition to the instrumentation in (1).

Airspeed

Altitude

RPM

JPT

Press Ratio

Fuel Remaining

R.F.T. PREPARED BY: [Signature]

APPROVED BY:

AUTHORIZED BY: [Signature]

DATE FOR COMPLETION

PRIORITY

ESTIMATED COMPLETION

DATE:



AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

REQUISITION FOR FLIGHT TEST

SECRETED
UNLIMITED

R. F. T. NO. 5024 Add. 9

SHEET NO. 2 OF 2

DATE: April 22, 1958

AIRCRAFT 25201

ASSIGNMENT NO.

WORK ORDER NO.

The above quantities should be given as frequently as possible during the climb and acceleration to maximum level speed.

R. F. T. PREPARED BY:

APPROVED BY:

AUTHORIZED BY:

DATE FOR COMPLETION

PRIORITY

ESTIMATED COMPLETION

DATE: